

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject (-)		Code 1011102421011117649
Field of study Logistics - Full-time studies - Second-cycle	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 2
Elective path/specialty Corporate Logistics	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: Second-cycle studies	Form of study (full-time,part-time) full-time	
No. of hours Lecture: 30 Classes: - Laboratory: - Project/seminars: 30		No. of credits 5
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 3 100% 3 100%
Responsible for subject / lecturer: dr inż. Łukasz Hadaś email: lukasz.hadas@put.poznan.pl tel. (61) 665 34 01 Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The student knows the basic concepts related to the management of production
2	Skills	The student has the ability to perceive and interpret the facts taking place in the sphere of production
3	Social competencies	The student understands the responsibility for decisions related to planning and shop floor control of production
Assumptions and objectives of the course: Getting to know the basics of the issues relevant to the field of production planning, presentation methods of production planning and shop floor control and the scope of their computer aided. Realization of the project system for planning and the system of production planning and shop floor control together with the preliminary computer aided design (developed in MS Excel) in order to determine the scope of the class MRPII system customization.		
Study outcomes and reference to the educational results for a field of study		
Knowledge: 1. The student characterized decisions on the levels of production planning and shop floor control and the scope of their computer aided. - [K2A_W02] 2. The student explains the features of job shop and flow shop production units and their impact on internal logistics - [K2A_W05] 3. The student characterized basic rules and methods of controlling the flow of material streams - [K2A_W08] 4. The student explains the basic concepts: model of production control, disruptions, time and buffer stock, the operational model - [K2A_W09] 5. The student describes the basic functionality of the computerized system MRPII class - [K2A_W12] 6. The student characterized basic methods of production planning in the conditions of dependent and independent demand - [K2A_W13]		
Skills:		

1. The student is able to present solution of the a developed production planning system and their computer aided. - [K2A_K04]
2. The student has the ability to self-propose solutions of specific problem in the area of production planning and shop floor control - [K2A_U05]
3. The student can design a process indicators analysis to evaluate the proposed production planning system - [K2A_U09]
4. The student can formulate task of building the computer aided system of production planning and shop floor control - [K2A_U17]
5. The student can design a computer aided planning system for specific organizational conditions - [K2A_U19]
Social competencies:
1. The student is aware of their responsibility for their own work and the willingness to subordinate with the rules of teamwork and take responsibility in the group of project - [K2A_K03]
2. The student is aware of the need to choose effective methods of production planning and shop floor control and their impact on competitiveness and entrepreneurship - [K2A_K06]

Assessment methods of study outcomes		
Formative assessment: a) For the project: on the basis of progress in the implementation stages of the project, and knowledge of the issues necessary to carry b) for the lecture: on the basis of answers to questions about the topics covered in previous lectures		
Recapitulative assessment: a) For the project: on the basis of (1) the quality of the project (2) answers to questions about the project b) for the lecture: on the basis of exam - written work on the issues discussed during the lecture. The exam can be applied after obtaining the ratings of the project and the laboratory. The exam is passed, after giving the correct answers to most questions		
Course description		
Lecture: presentation of three basic concepts of production planning: global, hierarchical and successive. Planning decisions at the level of production: strategic, tactical and operational level. Planning decisions at the level of production: finished goods, components and operations and the scope of their computer aided.		
Presented is the basic model of planning: a model MRP and MRPII. Discussed is the idea of shop floor control of the production, base control model and control principles (rules) and methods of interdepartmental and inter-departmental production control.		
Project: Project: Creation of the planning and shop floor control system for the fixed production and organizational conditions including the planning at the level of finished goods, components and operations together with the preliminary computer aided design (developed in MS Excel) in order to determine the scope of the class MRPII system customization.		
Basic bibliography:		
1. Hadaś Ł., Fertsch M., Cyplik P., Planowanie i sterowanie produkcją, Wydawnictwo Politechniki Poznańskiej, Poznań, 2012		
2. Senger Z., Sterowanie przepływem produkcji, Wydawnictwo Politechniki Poznańskiej, Poznań, 1998		
3. Fertsch M., Podstawy zarządzania przepływem materiałów w przykładach, Biblioteka logistyka, Wydawnictwo ILiM, Poznań, 2003		
Additional bibliography:		
1. Brzeziński M., Organizacja i sterowanie produkcją. Projektowanie systemów produkcyjnych i procesów sterowania produkcją, Agencja Wydawnicza Placet, Warszawa 2002.		
2. Goldratt E., Cox J., Cel. Doskonałość w produkcji, WERBEL, Warszawa 2000		
Result of average student's workload		
Activity	Time (working hours)	
1. Lecture	30	
2. Project	30	
3. Own work	5	
4. Preparing to pass exam	10	
Student's workload		
Source of workload	hours	ECTS
Total workload	75	3
Contact hours	60	2
Practical activities	30	2

